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(54) COMPOUND FOR ORGANIC EL ELEMENT AND ORGANIC EL ELEMENT

(57)Abstract:

PURPOSE: To obtain a compound which can be used as an organic EL element, particularly as a hole infusion transporting layer, because it shows prolonged emission life and high brilliance of high durability and reliability.

CONSTITUTION: This compound is represented by the formula (R1-R4 are each an aryl, an alkyl, an alkoxy, amino, halogen; r1-r4 are each 0-5; R5-R6 are each an alkyl, alkoxy, amino, halogen; r5, r6 are each 0-4), for example, N,N,N',N'-tetra(3-biphenyl)benzidine. This compound is obtained by heating a di(biphenyl) amine compound and a diiodo-biphenyl, or N,N'-diphenylbenzidine and a iodobiphenyl in combination, respectively, in the presence of copper. This compound has a high melting point, high glass transition point and the thin film formed by metallization or the like is clear and forms a stabilized amorphous smooth thin film even over the room temperature, thus it can be formed into a thin film by itself in no need of a resin binder.

